4-way directional manual control valves *Application & selection*

Shown: VC-20, VM-4



Reliable control of double-acting cylinders

- Directional control valves provide advance/hold/retract operation for use with double-acting or two single-acting cylinders
- Remote or pump mounting on most Enerpac pumps
- Return line kit included with remote valves
- Available “locking” option on VC and VM-series valves for load-holding applications

V-series

Manual operated 4-way, 3-position directional control valves for operation of double-acting or two single-acting cylinders. Remote mount valves include return line kit for connecting the valves to pump reservoir.

Application

Pump mounted valves provide centralized control of pump output for cylinder cycling. Remote mounted at any convenient point along the system where control of cylinders is needed.

Select the required center position

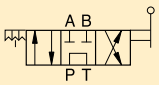
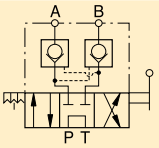
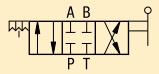
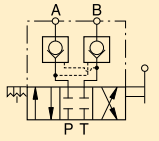
Non-locking
- Use in simple clamping circuits. Has interflow between ports when shifted.

Closed center
- For multiple valve and cylinder operation. All ports blocked in the center position.

Locking center
- For positive load holding without loss of pressure. Cylinder travel can only resume by shifting valve from hold position.

Tandem center
- For one or multiple cylinder operation. Pump flow is directed back to tank in the center position.

Product selection

Valve type	Valve mounting location	Model number	Hydraulic symbol
▼ **Manual 4-way, 3-position (4/3)**			
Tandem center	Pump	**VM-4**	
Tandem center	Remote	**VC-4**	
Tandem center, locking	Pump	**VM-4L**	
Tandem center, locking	Remote	**VC-4L**	
Closed center	Remote	**VC-20**	
Closed center, locking	Remote	**VC-20L**	

▮ *Enerpac VC-4 manual valves mounted to control hydraulic circuit on pallet fixture*



Pressure: 0 - 700 bar

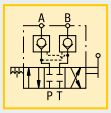
Flow: 17 l/min max.

(E) **Vàlvulas de control**

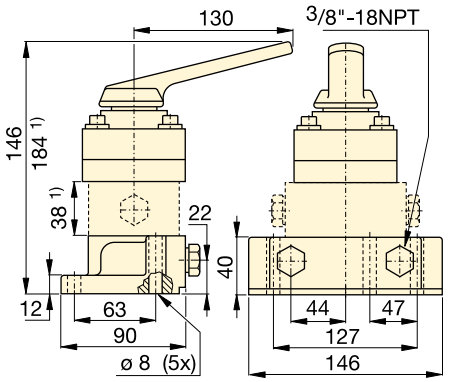
(F) **Distributeurs à 4 voies**

(D) **4-Wege-Ventile**



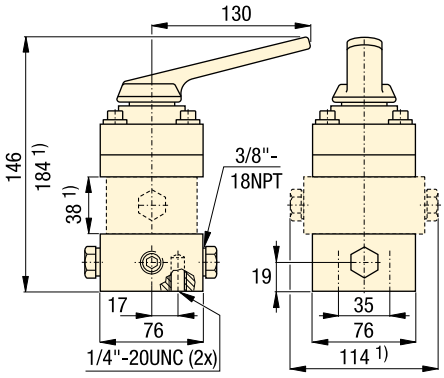


VM-4, VM-4L



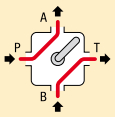
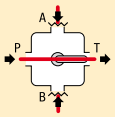
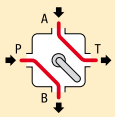
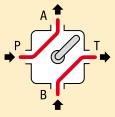
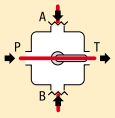
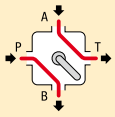
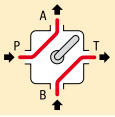
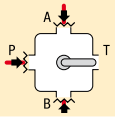
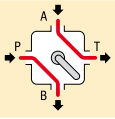
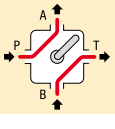
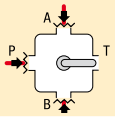
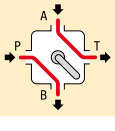
1) VM-4L only

VC-4, VC-3L
VC-20, VC-20L



1) VC-4L and VC-20L only

Product specifications

Model number	Pressure range	Used for cylinder	Schematic flowpath			
	bar		Advance	Hold	Retract	kg
▼ **Manual 4-way, 3-position (4/3)**						
VM-4	0-700	Double-acting				2,1
VC-4	0-700	Double-acting				2,9
VM-4L	0-700	Double-acting				3,9
VC-4L	0-700	Double-acting				4,7
VC-20	0-700	Double-acting				2,9
VC-20L	0-700	Double-acting				4,7

Options

Gauges and accessories
190



Hoses and couplers
192



Fittings
194



Important

Locking Valves

For applications that require positive load holding, most VM and VC valves are available with pilot operated check valve. This option provides hydraulic locking of the load until valve is shifted into retract position. To order this feature, place an "L" at the end of the model number.

Valving help

See Basic System Set-up and Valve information in our "Yellow Pages".

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